PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

F	<u> </u>					
Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416				
H151201D01P	FOR FURTHER ACTION	See Point PC1/IFE/9410				
International application No.	International filing date (day/monti	h/year) Priority date (day/month/year)				
PCT/JP2003/016304	19 December 2003 (19.12.2	2003)				
International Patent Classification (IPC) or national classification and IPC C22C 38/00, B22C 9/06, B22D 17/22, C22C 38/38, 38/60						
Applicant DAIDO STEEL CO.,LTD						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of	3 sheets, including th	is cover sheet.				
3. This report is also accompanied by A	-					
K7	to the International Bureau) a total of	of 11 sheets, as follows;				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
		licate type and number of electronic carrier(s))				
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relat						
N 2	ing to the following items.					
Box No. I Basis of the re	port					
Box No. II Priority						
Box No. III Non-establishr	nent of opinion with regard to novel	ty, inventive step and industrial applicability				
Box No. IV Lack of unity of	of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain docum	ents cited					
Box No. VII Certain defects	Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application						
Deta of submission of the demand						
Date of submission of the demand		Date of completion of this report				
20 June 2005 (20.06.20	005)	28 November 2005 (28.11.2005)				
Name and mailing address of the IPEA/JP	Authorized	Authorized officer				
Pagginaila Na	Tolombono	Telephone No				

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/016304

Box No). I	Basis of the report						
1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.								
\boxtimes	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:							
	international search (under Rules 12.3 and 23.1(b))							
	publication of the international application (under Rule 12.4)							
international preliminary examination (under Rules 55.2 and/or 55.3)								
jurni	snea to are not	d to the elements of the international a the receiving Office in response to an in annexed to this report): nternational application as originally filed.	witation under Article 14 are referr	(replacement sheets which have been ed to in this report as "originally filed"				
X		escription:	rumsned					
	pages	•						
	pages		6,9,10,13,15-17 received by this Authority on	, as originally filed/furnished 14 November 2005 (14.11.2005)				
	pages		received by this Authority on	14 November 2003 (14.11.2005)				
	the cl	aime.						
			6.5					
	pages	· · · · · · · · · · · · · · · · · · ·	6,7	, as originally filed/furnished				
	pages		received by this Authority on	gether with any statement) under Article 19				
	pages		received by this Authority on	14 November 2005 (14.11.2005)				
Ш		awings:						
	pages pages	*		, as originally filed/furnished				
	pages	**************************************	received by this Authority on					
			received by this Authority on _					
	a sequ	ence listing and/or any related table(s) - s	ee Supplemental Box Relating to Se	quence Listing.				
3. 🗌	The ar	nendments have resulted in the cancellation	on of:					
		the description, pages						
		the groupe of listing (month)						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
4.	made, (Rule	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box Rule 70.2(c)). the description, pages the claims, Nos						
		the drawings, sheets/figs						
	<u></u> 1	the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
				İ				
f item	4 appi	ies, some or all of those sheets may be ma	rked "superseded."					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP 03/16304

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement					
	Novelty (N)	Claims	1-7	YES		
		Claims		NO		
	Inventive step (IS)	Claims	1-7	YES		
		Claims		NO		
	Industrial applicability (IA)	Claims	1-7	YES		
		Claims		NO		

2. Citations and explanations

Document 1: JP 56-54379 B2 (Hitachi Metals, Ltd.), 25

December 1981

Document 2: JP 8-164465 A (Daido Steel Co., Ltd.), 25

June 1996

Document 3: JP 2002-121643 A (Hitachi Metals, Ltd.), 26

April 2002

Claims 1 to 7

The inventions set forth in claims 1 to 7 are not disclosed in any of the documents that are cited in the international search report; therefore, the inventions in question are novel and involve an inventive step. In particular, the feature of increasing the amount of nitrogen that is added to hot work tool steel like the steel from the invention that is set forth in the present application and the feature of configuring so that only 0.3% by weight or less of vanadium is added thereto are not disclosed in any of the abovementioned documents; however, the inventions that are set forth in the present application exhibit an advantageous effect whereby it is possible to improve the dissolution resistance characteristics of the hot work tool steel as a result of the features in question.